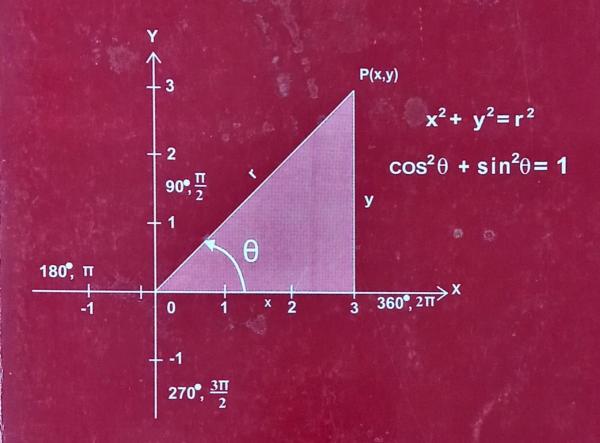
# THEOMOMOGHY

**WORKTEXT** 



Rodolfo G. Tungcab • Ubaldo P. Mangune Jr. • Olive N. Galura

Benjamin O. Guiao • Juanita Carmelita R. Zoleta • Rhoderick M. Favorito

## TRIGONOMETRY

Worktext

Rodolfo G. Tungcab Ubaldo P. Mangune, Jr. Olive N. Galura Benjamin O. Guiao Juanita Carmelita R. Zoleta Rhoderick M. Favorito Philippine Copyright, 2016

By:

Rodolfo G. Tungcab Ubaldo P. Mangune, Jr. Olive N. Galura Benjamin O. Guiao Juanita Carmelita R. Zoleta Rhoderick M. Favorito

All rights reserved. No part of this book may be used or reproduced in any form or by any means, stored in a database or retrieval system without prior consent of the authors and publisher.

#### TRIGONOMETRY (Worksext)

ISBN: 978 - 971-725 -151-6

Published by:

GRANDBOOKS PUBLISHING, INC.

50 M.R. Flores St. Sto. Rosario-Kanluran, Pateros Metro Manila

Tel. Nos. 628-3882

239-2587

Email: grandbookspublishinginc@yahoo.com

00077346

### TABLE OF CONTENTS

Chapter 1 TRIGONOMETRIC FUNCTIONS OF POSITIVE ACUTE ANGLES	1
Chapter 2 SOLUTION OF RIGHT TRIANGLES	12
Chapter 3 TRIGONOMETRIC FUNCTIONS OF ANY ANGLE	25
Chapter 4 SOLUTION OF OBLIQUE TRIANGLES	35
Chapter 5 FUNDAMENTAL IDENTITIES	51
	,
Chapter 6 LOGARITHMS	64
Chapter 7 RADIAN MEASURE	77
Chapter 8 GRAPHS OF TRIGONOMETRIC FUNCTIONS	. 85
Chapter 9 INVERSE TRIGONOMETRIC FUNCTIONS	96



#### THE AUTHORS

- RODOLFO G. TUNGCAB is an Assistant Professor II at the Don Honorio Ventura College of Arts and Trades (DHVCAT) in Bacolor. Pampanga He finished his Bachelor of Science in Civil Engineering from the Guagua National Colleges in 1982. He started teaching Engineering Subjects since 1985 and at the same time practices his civil engineering profession specialezed in structural design and estimate. He was formerly the Area Chair of Mathematics of the Institute of Science and Technology. At preset, he is the director of the DHVCAT infrastructure General Services Committee (DIGSCOM). He is the over-all-in-charge of planning and design, estimates and monitoring of all infrastracture projects in the colleges since 1996.
- UBALDO P. MANGUNE JR. is an instructor at the Don Honorio Ventura Colleges of Arts and Trades (DHVCAT) in Bacolor, Pampanga. He obtained his Bachelor of Science in Civil Engineering from the University of the Assumption, Pampanga. He is currently writing his thesis in Master of Arts in Industrial Education (MAIE) at DHVCAT. He teaches courses in Mathematics and Basic Computer Education. He his presently one of the advisers of the Inter-collegiate Chess Organization in DHVCAT. He has attended various academic seminars/training whose objectives are to attain teaching excellence. improved and update instructional materials.
- OLIVE N. GALURA is a graduate of Don Honorio Ventura College of Arts and Trades (DHVCAT) in Bacolor, Pampanga with a degree of Bachelor of Science in Industrial Education, major in mathematics. He has been teaching general courses in Mathematics in the Institute of Industrial Technology (IIT) for ten (10) years. He has earned units in Master of Arts in Industrial Education (MAIE) at DHVCAT. He was formerly the president of the Faculty Association of the Institute of the Industrial Technology and presently the evaluator of the Qualitative Criteria Evaluation (QCE) of the IIT.
- JUANITA CARMELITA R. ZOLETA is a graduate of Don Honorio Ventura College of Arts and Trades (DHVCAT) in Bacolor, Pampanga, with a degree of Bachelor of Science in Civil Engineering. She has been teaching general courses in Mathematiccs in the Department of Civil Engineering of the Institute of Science and Technology for fourteen (14) years.
- BENJAMIN O. GUIAO is a graduate of Don Honorio Ventura College of Arts and Trades (DHVCAT) in Bacolor, Pampanga, with a degree of Bachelor of Science in Civil Engineering. He has been teaching general courses in Mathematics for eight (8) year in the Institute of Science and Technology
- RHODERICK M. FAVORITO earned his degree of Bachelor of Science in Electrical Engineering at Holy Angel University in Angeles City. Academic Year 1997 2002. He is now a faculty member of the Don Honorio Ventura College of Arts and Trades. He is also taking up Master of Engineering major in Electrical also at Holy Angel University.